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ELEMENTS OF COMET COGGIA (JULY 18, 1890).

BY ARMIN O. LEUSCHNER.

From the Marseilles observation of July 19 and two others made at the Lick Observatory by Mr. W. W. CAMPBELL on July 22 and 23, the following elements of Comet COGGIA (July 18, 1890) have been computed :

$$\begin{aligned} T &= 1890, \text{ July } 8.5983 \text{ G. m. t.} \\ \omega &= 85^{\circ} 46'.0 \\ \Omega &= 14^{\circ} 25'.6 \\ i &= 63^{\circ} 14'.3 \end{aligned} \left. \vphantom{\begin{aligned} T \\ \omega \\ \Omega \\ i \end{aligned}} \right\} \text{ M. Equinox } 1890.0$$

$$\log q = 9.88404$$

$$O - C : \Delta \beta = + 0'.1, \quad \Delta \lambda \cos \beta = + 0'.1$$

LICK OBSERVATORY, July, 1890.

ELEMENTS OF COMET DENNING (JULY 23, 1890).

BY ARMIN O. LEUSCHNER.

The first three observations of Comet DENNING (July 23, 1890), secured at the Lick Observatory by Mr. E. E. BARNARD on July 25, 26, 27, are represented by the following orbit :

$$\begin{aligned} T &= 1890, \text{ Sept. } 22.011 \text{ G. m. t.} \\ \omega &= 169^{\circ} 28'.1 \\ \Omega &= 106^{\circ} 44'.1 \\ i &= 97^{\circ} 10'.5 \end{aligned} \left. \vphantom{\begin{aligned} T \\ \omega \\ \Omega \\ i \end{aligned}} \right\} \text{ M. Equinox } 1890.0$$

$$\log q = 0.06548$$

$$O - C : \Delta \beta = 0'.0, \quad \Delta \lambda \cos \beta = 0'.0$$

LICK OBSERVATORY, July, 1890.

From Mr. BARNARD'S observations of July 25, August 3, and August 12, I have deduced the following new elements of Comet DENNING (1890, July 23):

$$\begin{aligned} T &= 1890, \text{ Sept. } 24.4824 \text{ G. m. t.} \\ \Omega &= 99^{\circ} 56' 27''.9 \\ \omega &= 162^{\circ} 45' 59''.9 \\ i &= 98^{\circ} 58' 25''.8 \end{aligned}$$

$$\log q = 0.101606$$

$$O - C : \Delta \lambda \cos \beta = + 9''.5, \quad \Delta \beta = + 5''.2$$

LICK OBSERVATORY, August 14, 1890.